IN THE CLAIMS

1. (Withdrawn) A semiconductor device comprising:

a semiconductor substrate;

an insulating layer formed on the semiconductor substrate and having a contact hole therethrough;

a diffusion barrier layer formed on a surface of the insulating layer and on surfaces within the contact hole; and a contact plug which comprises a first sub-plug that fills a lower portion of the contact hole and a second sub-plug that fills an upper portion of the contact hole on the first sub-plug.

- 2. (Withdrawn) The semiconductor device of claim 1, wherein the first sub-plug is formed of tungsten and the second sub-plug is formed of titanium nitride.
- 3. (Withdrawn) The semiconductor device of claim 2, wherein the titanium nitride is formed to a thickness of no greater than approximately 1000 Å.
- 4. (Withdrawn) The semiconductor device of claim 2, wherein the diffusion barrier layer is formed of titanium/titanium nitride.
- 5. (Currently amended) A method for manufacturing a semiconductor device comprising:

forming an insulating layer having a contact hole therethrough on a semiconductor substrate;

forming a diffusion barrier layer on a surface of the insulating layer and on surfaces within the contact hole;

forming a first metal layer on the insulating layer having the contact hole therethrough, the first metal layer having a void therein below a top surface of the insulating layer;

etching back the first metal layer to the depth of the void to form a first sub-plug without the void in a lower portion of the contact hole; and

forming a second metal layer within the contact hole overlying the first sub-plug and on the diffusion barrier layer, the second metal layer being formed thick enough to substantially completely fill the contact hole; and Docket No. 9898-189

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planarizing the second metal layer until a top surface of the diffusion barrier layer on the insulating layer is exposed, thereby forming a second sub-plug that fills an upper portion of the contact hole on the first sub-plug, the second sub-plug having a substantially flat surface.

- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Original) The method for manufacturing a semiconductor device of claim 5, wherein the first sub-plug is formed of tungsten.
- 10. (Original) The method for manufacturing a semiconductor device of claim 5, wherein the second sub-plug is formed of one of tungsten and titanium nitride.
- 11. (Original) The method for manufacturing a semiconductor device of claim 5, wherein the second sub-plug is formed to a thickness no greater than 1000 Å.
- 12. (Original) The method for manufacturing a semiconductor device of claim 5, wherein the diffusion barrier layer is formed of titanium/titanium nitride.
- 13. (Previously presented) The method of claim 5, wherein the plug formed in the contact hole contacts a surface of the semiconductor substrate.
- 14. (Currently amended) The method of claim [8] 5, wherein the first metal layer is a metal layer capable of generating a void in the contact hole.
- 15. (Currently amended) The method of claim [8] 5, wherein the second metal layer is formed by atomic layer deposition.